

ABSTRACT

Method and device for optimising, under performance constraint,
the size of blocks of coded data

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Method of optimising the size of blocks of coded data intended to be subjected
to iterative decoding, a maximum error rate at the output of the iterative decoding
being fixed in advance, in which there are sought, amongst a plurality of block sizes
10 (N/k) which are submultiples of the normal block size by an integer factor (k) greater
than or equal to 1 and a plurality of integers giving the maximum number of iterations
($n_{\text{iterations}}^{(k)}$) which can be effected by the said iterative decoding on a block, a
submultiple size and a maximum number of iterations such that they are compatible
with the said maximum error rate and such that a mean number of iterations ($\bar{n}_{\text{iterations}}^{(k)}$)
15 which would be effected by the iterative decoding on a block of submultiple size is as
low as possible.

Fig. 7

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